



TASK ORDER (TO)

47QFCA22F0005

OUTSIDE PLANT (OSP) CAPABILITY (CAP) SET

in support of:

**United States Army Program Executive
Office Enterprise Information Systems
(PEO EIS)**

**Installation Information Infrastructure
Modernization Program (I3MP)**

Issued to:

**CACI Inc. Federal under the General Services Administration (GSA) Alliant 2
Governmentwide Acquisition Contract (GWAC) – Contract 47QTCK18D0009**

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Issued by:

**Federal Systems Integration and Management Center (FEDSIM)
1800 F Street, NW (QF0B)
Washington, D.C. 20405**

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FEDSIM Project Number AR01175

SECTION C –PERFORMANCE WORK STATEMENT

C.1 BACKGROUND

The United States (U.S.) Army Program Executive Office (PEO) is modernizing its Outside Plant (OSP) infrastructure and facilities to implement IT capacity, modernize U.S. Government OSP, and perform site preparation work including new communications shelters, as needed. The focus of OSP Capability (CAP) SET is to deploy underground Fiber Optic Cable (FOC) infrastructure to provide the required capability of a robust, reliable high-speed data network to the users.

In the past, the U.S. Army has deployed FOC infrastructure in a mixture of direct buried cable, lashed fiber on pole lines, and underground conduit infrastructure. The standards and specifications for the Defense Information Systems Network-Enterprise Network (DISN-EN) Installation Campus Area Network Design and Implementation (ICAN-DI) describe the network architecture physical connectivity standards that are relevant to this contract.

C.1.1 PURPOSE

The purpose of this procurement is to efficiently provide robust, scalable, and reliable physical connectivity through survey, design, and implementation of a turn-key solution in support of the Base/Post/Camp/Station (B/P/C/S).

C.1.2 AGENCY MISSION

The PEO Enterprise Information Systems (EIS) provides the IT network and business systems that soldiers and the U.S. Army need to operate every day. The Installation Information Infrastructure Modernization Program (I3MP) enables the warfighter through IT infrastructure modernization, and life cycle management of the U.S. Army's Continental United States (CONUS) installation campus area (i.e., voice, video, and data) networks and strategic command centers across the Army.

C.2 SCOPE

The PEO EIS I3MP Product Manager (PdM) has a requirement to realize the Government modernization and transition using a single contracting action with two distinct phases: (1) survey/design and (2) implementation. Part of the modernization strategy consists of transitioning the infrastructure to an enterprise-wide approach that combines disparate solutions into a single, integrated solution to drive new effectiveness and efficiencies. It is recognized that there will be inherently varying levels of physical cable plant available to bring all networks into compliance at once. I3MP's implementation requirements are to Engineer, Furnish, Install, and Test (EFI&T), document, migrate, and cutover a turnkey solution to upgrade the existing OSP infrastructure and facilities using commercial best practices. The contractor shall survey and engineer a design plan to be implemented for the OSP CAP Set Infrastructure.

Construction contracting is not in scope of this TO. The requirements do not include the construction of, alteration of, or repair of real property or buildings. Ancillary to the entire solution and as required at various military installations, the I3MP scope involves the following: digging, trenching, and pouring concrete, as well as similar functions. Dependent on the installation, the OSP CAP Set solution shall also include prefabricated "communication shelters" of various sizes which shall house cables, conduits, and other materials.

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C.3 CURRENT INFORMATION TECHNOLOGY (IT)/NETWORK ENVIRONMENT

The currently installed infrastructure is an FOC and copper infrastructure in a mixture of direct buried cable, lashed fiber on pole lines, and underground conduit infrastructure routed to End-User Buildings (EUBs) and facilities identified by the Government. Telecommunications pathways exist through Maintenance Holes (MH) and Hand Holes (HH). Each copper and fiber cable is labeled to note origination, splice, termination, and demarcation points allowing for ease in surveying. The collective infrastructure allows for physical connectivity to the network elements on the Base/Post/Camp/Site (B/P/C/S) network.

C.4 OBJECTIVE

I3MP requires a robust and reliable upgraded, standardized, enterprise-wide IT infrastructure with connection via FOCs to provide user/network connectivity between all required locations on B/P/C/S in support of tenant mission requirements and user needs.

The objectives for this effort are to:

- a. Upgrade the capacity and reliability of the installed Army voice and data infrastructure through connection via FOCs to provide user/network connectivity between all required locations on B/P/C/S in support of tenant mission requirements and user needs.
- b. Standardize Army installation network architectures, increases network bandwidth/throughput, and increases network security and reliability.
- c. Achieve efficiency and standardization of OSP infrastructure through a unified TO to fulfill B/P/C/S connectivity across multiple sites.

C.5 TASKS

The scope is broadly organized according to the following functional areas:

- a. Task 1 – Provide Program Management and Site Project Management.
- b. Task 2 – Provide Site Survey, Engineer, and Design.
- c. Task 3 – Provide Implementation and Test .

I3MP OSP includes all typical commercial installations including trenching, boring, direct buried cable, splicing, installation of MH and HH, and installation of conduits and FOC with site-specific Federal, state, base, and locality regulations and specifications. OSP connection points are from core/area nodes to EUBs and core/area noted to other core/area nodes. Site preparation includes physical environmental conditions (e.g., Heating, Ventilation, and Air Conditioning (HVAC), humidity, and structure) and the supporting and sustaining facilities systems (e.g., power, grounding, Uninterruptible Power Supply (UPS), and generators) for IT equipment. The contractor shall procure and assemble prefabricated communications shelters.

C.5.1 TASK 1 – PROVIDE PROGRAM MANAGEMENT AND SITE PROJECT MANAGEMENT

The contractor shall provide project management and site project management support under this TO. This includes the management and oversight of all activities performed by contractor personnel, including subcontractors, to satisfy the requirements identified in this Performance Work Statement (PWS).

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The contractor shall manage, schedule, administer, and provide oversight of all sites, reporting, and staffing requirements. The contractor shall institute and maintain industry best practices, standards, processes, and methodologies. Should the contractor encounter any technical, security, financial, personnel, delivery, or general managerial problems in the performance of this TO, the contractor shall immediately contact the FEDSIM COR and PEO EIS I3MP Technical Point of Contact (TPOC) and provide a written Problem Notification Report (PNR) (Section F.7 and Section J, Attachment D) to the FEDSIM COR (Section F, Deliverable 1).

C.5.1.1 SUBTASK 1.1 – ACCOUNTING FOR SERVICE CONTRACT REPORTING

The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the U.S. Army. The contractor shall completely fill in all required data fields using the following web address: <http://www.sam.gov>.

Reporting inputs will be for the labor executed during the period of performance during each Government Fiscal Year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported No Later Than (NLT) October 31 of each calendar year. The contractor may direct questions to the support desk at: <http://www.sam.gov>.

C.5.1.2 SUBTASK 1.2 – COORDINATE TO AND PROJECT KICK-OFF MEETINGS

The contractor shall schedule, coordinate, and host TO and Project Kick-Off Meetings at the location approved by the Government for the TO and for each site project (Section F, Deliverable 2). At the Government's direction, meetings may be virtual. The meeting shall provide an introduction between the contractor personnel and Government personnel who will be involved with the TO. The meeting shall provide the opportunity to discuss technical, management, and security issues, travel authorization and reporting procedures, and initial planning for the project. At a minimum, the attendees shall include the contractor's Key Personnel, the TPOC, other relevant Government personnel, the FEDSIM CO, and the FEDSIM COR.

At least three days prior to the Project Kick-Off Meeting, the contractor shall provide a Project Kick-Off Meeting Agenda (Section F, Deliverable 3) and Project Kick-Off Meeting Slides or Material (Section F, Deliverable 4) for review and approval by the FEDSIM COR and the TPOC prior to finalizing. The agenda shall include, at a minimum, the following topics/deliverables:

- a. TO and Project points of Contact (POCs) for all parties.
- b. TO and Project Personnel discussion (i.e., roles and responsibilities and lines of communication between contractor and Government).
- c. TO and Project overview of the contractor organization to support various work locations.
- d. TO and Project Staffing Plan and status.
- e. TO and Project Start-Up Plan (Section F, Deliverable 5) and discussion.
- f. TO and Project Security discussion and requirements (i.e., building access, badges, and Common Access Cards (CACs)).
- g. TO and Project financial reporting and invoicing requirements.

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- h. TO Project Management, including an overview of the Project Management Plan (PMP) (Section F, Deliverable 6), project tasks, and identified risks and mitigation plans.
- i. TO Quality Management Plan (QMP) (Section F, Deliverable 7).

The Government will provide the contractor with the number of Government participants for the Project Kick-Off Meeting, and the contractor shall provide electronic copies of the presentation for all present.

The contractor shall draft and provide a Project Kick-Off Meeting Minutes Report (Section F, Deliverable 8) documenting the Project Kick-Off Meeting discussion and capturing any action items.

C.5.1.3 SUBTASK 1.3 – PREPARE A MONTHLY STATUS REPORT (MSR)

The contractor shall develop and provide an MSR (Section J, Attachment E), (Section F, Deliverable 9). The MSR shall include the following:

- a. Activities during the reporting period, by task (include ongoing activities, new activities, and activities completed, and progress to date on all above-mentioned activities). Each section shall start with a brief description of the task.
- b. Problems and corrective actions taken. Also include issues or concerns and proposed resolutions to address them.
- c. Personnel gains, losses, and status (security clearance, etc.).
- d. Government actions required.
- e. Schedule (show major tasks, milestones, and deliverables; planned and actual start and completion dates for each).
- f. Summary of trips taken, conferences attended, etc. Trip Reports (Section F, Attachment F) shall be attached to the MSR for the reporting period).
- g. Cost incurred by CLIN and TDL.
- h. Cost incurred by site and TDL.
- i. Accumulated invoiced cost for each CLIN and TDL up to the previous month.
- j. Accumulated invoiced cost for each site and TDL up to the previous month.
- k. Projected cost of each CLIN and TDL for the current month.

C.5.1.4 SUBTASK 1.4 – WEEKLY STATUS REPORT (WSR)

The contractor shall provide a WSR (Section F, Deliverable 10) for each active site that details the current and projected status; issues, problems, and delays; risk and mitigation; and basis for changes to strategy. The WSR shall also contain the following

- a. Incident Log Report (Section F, Deliverable 11).
- b. Quantities of waste removed and recycled, if applicable.
- c. Training Report (Section F, Deliverable 12). The Training Report shall include training courses provided; who provided the training (i.e., Original Equipment Manufacturer (OEM) name); dates of training; names and number of students attended; names and number of students receiving certificate of completion; upcoming training planned.

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C.5.1.5 SUBTASK 1.5 – TASK ORDER (TO) MEETINGS

The contractor shall attend TO meetings for the program as identified below and as requested. The development of the schedule and the duration of the meetings will be based on the project and any ongoing issues. Meetings may be face to face, on the telephone, or via Video Teleconference (VTC). If briefing materials are required from the contractor for these meetings, the Government will provide notification of this requirement. The contractor shall provide IPT Meeting Documentation (Section F, Deliverable 13), which may include briefing materials, and attendance, issues discussed, and decisions made. An Action Item Register (AIR) (Section F, Deliverable 14) shall document open, closed, comments, and status of assigned action items. Meeting Minutes (Section F, Deliverable 15) shall be provided.

a. Project Management Review (PMR) (Section F, Deliverable 16)

The contractor shall convene a monthly PMR accompanied by briefing materials (Section F, Deliverable 17) with the TPOC, FEDSIM COR, and other Government stakeholders. The purpose of these meetings is to ensure all stakeholders are informed of the monthly activities and MSR, provide opportunities to identify other activities and establish priorities, and coordinate resolution of identified problems or opportunities. The PMR shall address the following:

1. Activities during the month, by task (include ongoing activities, new activities, and activities completed, and progress to date on all above-mentioned activities) by TDL. Each section shall start with a brief description of the task.
2. Problems and corrective actions taken. Also include issues or concerns and proposed resolutions to address them.
3. Updated Contractor Gains and Loss Roster that includes all contractor personnel (including subcontractors and teaming partners) by location, project, Alliant 2 Standard IT LCAT, Alliant 2 Non-Standard IT LCAT, or Alliant 2 Ancillary Service LCAT, and functional role. The roster shall also specifically identify any gains, losses, and credential status/changes.
4. Government actions required.
5. Schedule (show major tasks, milestones, and deliverables, and planned and actual start and completion dates for each).
6. Summary of trips taken, conferences attended, etc. (attach Trip Reports to the PMR for reporting period).
7. Detailed cost accounting by CLIN, Task, and TDL.
8. Costs incurred by CLIN, Task, and TDL and costs incurred but not billed by CLIN, Task and TDL.
9. Accumulated invoiced cost for each CLIN, Task, and TDL up to the previous month.
10. Estimate at completion for each CLIN, Task and TDL.
11. Variance at completion based on funding availability for each CLIN, Task, and TDL.
12. The contractor shall have Key Personnel available to support the PMR. Subcontractors shall attend the PMR when required to address key elements and tasks, applicable to subcontractors, for which they have oversight or relevant knowledge. The PMR is historically attended by an average of seven to 15 total stakeholders, including contractor personnel.

b. Integrated Project Team (IPT) Meetings (Section F, Deliverable 18):

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The contractor shall attend and participate in IPT Meetings convened by the FEDSIM CO, the FEDSIM CO, FEDSIM COR, TPOC, and other Government personnel, as appropriate, to be conducted throughout the entire TO period of performance. IPT Meetings shall provide a forum suitable for maintaining a continuous interchange of ideas and issues and to identify and resolve potential problem areas. IPT Meetings shall be biweekly during the start-up period, then as needed based on FEDSIM COR and TPOC guidance.

IPT meetings shall include weekly status meetings for each active site via teleconference, videoconference, or on site. The contractor shall provide updated meeting documentation and AIR for each weekly status meeting. Weekly status meeting updates shall include updates to the site's Integrated Master Schedule (IMS) (Section F, Deliverable 19).

C.5.1.6 SUBTASK 1.6 – PREPARE AND UPDATE A PROJECT MANAGEMENT PLAN (PMP)

The contractor shall document all support requirements in a PMP and shall provide it to the Government (Section F, Deliverable 6). The PMP shall be comprehensive and sufficiently detailed to support successful execution, monitoring, controlling, and close-out of this project.

The PMP shall:

- a. Describe the proposed management approach.
- b. Contain detailed Standard Operating Procedures (SOPs) for all tasks.
- c. Include milestones, tasks, and subtasks required in this TO and for all TDLs.
- d. Provide for a program-level Work Breakdown Structure (WBS) with a minimum of three levels and associated responsibilities and partnerships between Government organizations.
- e. Describe in detail the contractor's approach to risk management under this TO.
- f. Describe in detail the contractor's approach to communications, including processes, procedures, format, and other rules of engagement between the contractor and the Government.
- g. Describe Key Personnel by name and LCAT.
- h. Include the OCI Mitigation Plan (Section F, Deliverable 20) (Section H.19.1). The OCI Mitigation Plan section updates shall be provided to the FEDSIM CO for approval at least five workdays prior to the PMP update.
- i. The contractor shall assess, as part of the PMP (Section F, Deliverable 6), warranty costs. Army Regulation 700-139 may be referenced. The assessment shall contain at least the following:
 1. The benefits from the warranty compared to the cost of corrective action if there had been no warranty.
 2. Cost avoidance and Government cost to administer the warranty.
 3. Document one-bid warranties versus warranties with adequate competition as well as ways to reduce one-bid warranties.

The PMP is an evolutionary document that shall be updated annually at a minimum and as project changes occur (e.g., Key Personnel). The contractor shall work from the latest Government-approved version of the PMP.

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C.5.1.7 SUBTASK 1.7 – ON-SITE PROJECT MANAGEMENT

The contractor shall provide on-site project management support for managing, scheduling, administering, validating, and making day-to-day decisions regarding on-site work. These duties may include, but are not limited to, on-site technical management, Quality Assurance (QA), and installation support. The On-Site Manager shall:

- a. Attend meetings with the Government.
- b. Provide information to the Government, including PEO EIS QA and Network Enterprise Center (NEC)).
- c. Serve as the on-site POC for all aspects of the project including work crews, dig crews, access, clean-up, and restoration, as necessary.
- d. Manage and resolve problems/issues without undue involvement of Government resources.

C.5.1.8 SUBTASK 1.8 – PREPARE TRIP REPORTS

The Government will identify the need for a Trip Report when the request for travel is submitted (Section F, Deliverable 21). The contractor shall keep a summary of all long-distance travel including, but not limited to, the name of the employee, location of travel, duration of trip, and POC at travel location. Trip reports shall also contain Government approval authority, total cost of the trip, a detailed description of the purpose of the trip, and any knowledge gained. At a minimum, Trip Reports shall be prepared with the information provided in Section J, Attachment F.

C.5.1.9 SUBTASK 1.9 – PROVIDE QUALITY MANAGEMENT

The contractor shall identify and implement its approach for providing and ensuring quality throughout its solution to meet the requirements of the TO. The contractor shall provide a QMP and maintain and update it as changes in the program processes are identified (Section F, Deliverable 7). The contractor's QMP shall describe the application of the appropriate methodology (i.e., Quality Control (QC) and/or QA) for accomplishing TO performance expectations and objectives. The QMP shall describe how the appropriate methodology integrates with the Government's requirements and address continuous process improvement approaches for the project.

The contractor shall include in the QMP procedures covering key control. Such procedures shall include turning in any issued keys by personnel who no longer require access to locked areas. The contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the FEDSIM CO and TPOC.

In the event keys, other than master keys, are lost or duplicated, the contractor shall, upon direction of the FEDSIM CO, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying.

C.5.1.10 SUBTASK 1.10 – RISK MANAGEMENT PLAN

The contractor shall perform continuous tracking and assessments to determine how risks have changed and how they impact the project. The contractor shall include a Risk Management Plan (Section F, Deliverable 22) and Risk Management Status Report (Section F, Deliverable 23).

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C.5.1.11 SUBTASK 1.11 – CHANGE MANAGEMENT

The contractor shall provide change management including minor engineering changes (Section F, Deliverable 25) and significant engineering changes (Section F, Deliverable 26). Changes are most likely to occur in the context of a TDL (Section H.31) and Technical Direction Plan (TDP) (Section F, Deliverable 24) (Section C.5.1.13).

C.5.1.12 SUBTASK 1.12 – SCHEDULE MANAGEMENT

The contractor shall provide schedule management including using an IMS and WBS. When a TDP is accepted, the TDL project site shall have its own site IMS and site WBS.

a. IMS

The contractor shall submit an IMS (Section F, Deliverable 19) that is integrated, logical, and network based. Progress will be measured against the Government-approved baseline schedule on a weekly basis. The TO IMS shall contain site schedules for each active TDP and track site and overall performance against the baseline TDP, with a roll-up of the entire TO effort. The contractor shall update the TO IMS and site IMSs weekly to reflect the progress. Weekly status of progress against site IMSs shall be provided in Weekly Status Meetings. The contractor shall review the IMS and provide input to the Risk Management Status Report (Section F, Deliverable 23).

b. WBS

The contractor shall develop a contract-level WBS (Section F, Deliverable 27) based on the Government-provided program-level WBS (Figure 1). The WBS shall detail the deliverables and work packages required to complete all work associated with the project. The WBS shall include all capabilities described in the PWS and conform to the American National Standards Institute (ANSI) standards and Military Handbook (MIL-HDBK).

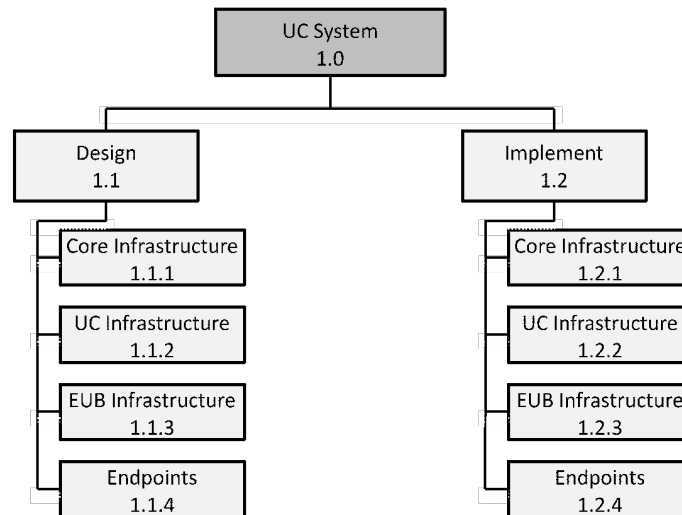


Figure 1. Program-Level WBS

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C.5.1.13 SUBTASK 1.13 – PREPARE AND UPDATE TECHNICAL DIRECTION PLANS (TDPs)

The Government anticipates that this TO will be project based with multiple projects operating concurrently among the U.S. Army. Work within the scope and tasks of the TO will be directed by the U.S. Army through a TDL in accordance with Section H.30 TDLs will be initiated by the Government and completed by the contractor in the form of a TDP (Section F, Deliverable 24). TDLs will include an in-scope determination statement to which the TDPs must adhere. The FEDSIM COR will examine the TDP to ensure work remains within scope of the TDL. If the FEDSIM COR suspects the TDP is outside the scope of the TDL (or is notified by the contractor), the FEDSIM COR will notify the FEDSIM CO. The contractor shall correct the TDP so that work remains in scope. The contractor shall provide all expertise and services as stated in the TO to deliver the integrated professional services. TDLs will be initiated at varying times within a period of performance, consisting of various appropriation types (e.g., one-year, two-year, no-year funds, etc.), depending on the bona fide need. These efforts may be severable or non-severable.

In response to the Government's TDL, the contractor shall provide, at a minimum, the following information as part of a TDP:

- a. A summary of the Government's requirements that includes at a minimum the project specifications, structure, activities, conditions, risks, mitigations, roles and responsibilities of the contractor, and information expected from the Government.
- b. Schedule, including the anticipated timeline for appropriate personnel security processing, from project inception through project closeout. All project milestones shall be detailed with clear, unambiguous target dates.
- c. Project staffing and resource profile.
- d. Long-Distance Travel, Tools, and ODCs considerations.
- e. Security considerations.
- f. Detailed project cost estimate broken out by CLIN.
- g. Other information required by the TDL.

Simple rephrasing or copy/pasting of the Government's TDL is not acceptable and may result in rejection. Once the TDP (Section F, Deliverable 24) has been approved by the FEDSIM COR (first POC) or FEDSIM CO, the contractor shall schedule and coordinate a Site Project Kick-Off Meeting (Section F, Deliverable 2) at a location approved by the Government. Project Kick-Off Meetings may be held virtually pending approval from the FEDSIM COR. Depending on the nature of the requirement, the FEDSIM COR may also waive the requirement for a Project Kick-Off Meeting. The FEDSIM COR may also determine that multiple Project Kick-Off Meetings may be combined into a single session. The meeting will provide an introduction between the contractor personnel and Government personnel who will be involved with the project. The meeting will provide the Government and the contractor with an opportunity to discuss technical, management, and security issues as well as other TO processes and procedures. At a minimum, the attendees shall include the contractor Program Manager (PM), relevant Government representatives, the TPOC, and the FEDSIM COR.

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Prior to the Project Kick-Off Meeting, the contractor shall provide a Kick-Off Meeting Agenda (Section F, Deliverable 3) for review and approval by the FEDSIM COR and the TPOC prior to finalizing. The agenda shall include, at a minimum, the following topics:

- a. Introduction of team members and personnel including roles, responsibilities, and lines of communication between the contractor and the Government.
- b. Discussion of the TDL requirements.
- c. Discussion of the cost estimate.
- d. Discussion of staffing and status.

Following the Project Kick-Off Meeting, the contractor shall provide an updated, if needed, TDP (Section F, Deliverable 24) to the FEDSIM COR for review and approval in accordance with Section E. The TDP is an evolutionary document that shall be updated, at a minimum, annually or as changes occur (Section F, Deliverable 24) or the project reaches completion. The contractor shall work from the latest Government-approved version of the TDP. If there is a conflict between the TDP and the TO, the TO shall always take precedence. The FEDSIM CO shall approve all TDL changes and retains authority to approve all TDP changes.

C.5.1.14 SUBTASK 1.14 – TO START-UP

The contractor shall provide start-up services for the TO. The contractor shall conclude all TO start-up activities NLT 45 calendar days after TOA. The contractor shall implement its Government-approved TO Start-Up Plan NLT five calendar days after the TO Kick-Off Meeting.

The contractor shall provide a TO Start-Up Plan (Section F, Deliverable 5) for Government approval that shall address the tasks in Section C.5, identifying the roles and responsibilities of the contractor; information expected from the Government; a draft schedule(s), including the anticipated timeline for appropriate personnel security processing; and milestones to ensure no disruption of Government service during and after the start-up period.

C.5.1.15 SUBTASK 1.15 – TRANSITION-OUT

The contractor shall provide transition-out services when required by the Government. The contractor shall facilitate the accomplishment of a low-risk transition from the incumbent to an incoming contractor/Government personnel at the expiration of the TO. The contractor shall provide a Transition-Out Plan (Section F, Deliverable 28) NLT 180 calendar days prior to expiration of the TO's base period and each TO option period. The contractor shall review and update the Transition-Out Plan in accordance with the specifications in Sections E and F.

The contractor shall identify in the Transition-Out Plan how it will coordinate with the incoming contractor and/or Government personnel to transfer knowledge regarding the following:

- a. Project management processes.
- b. POCs.
- c. Location of technical and project management documentation.
- d. Status of ongoing technical initiatives.
- e. Appropriate contractor coordination to ensure a low-risk transition.
- f. Transition of Key Personnel roles and responsibilities.
- g. Schedules and milestones.

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- h. Configuration settings of all ancillary Tools and ODCs installed by the contractor, where applicable.
- i. Asset management, including any license expiration dates, where applicable.
- j. Actions required of the Government.

The contractor shall also establish and maintain effective communication with the incoming contractor/Government personnel during the transition-out period and conduct IPT meetings (Section F, Deliverable 18) that address Transition-Out status no less than on a weekly basis. The contractor shall conduct IPT meetings addressing Transition-Out more frequently, if necessary, to ensure a low-risk transition-out.

The contractor shall implement its Transition-Out Plan in accordance with the Government-approved Transition-Out Plan and NLT 90 calendar days prior to expiration of the TO. All facilities and tools utilized by the contractor personnel during performance of the TO shall remain accessible to the contractor personnel during the transition-out period pursuant to the applicable security in-processing and out-processing guidelines.

C.5.1.16 SUBTASK 1.16 – IMPLEMENT A TO MANAGEMENT PORTAL

The objective of the TO management portal is to introduce efficiencies and ensure coordinated service delivery and provide a central location for the Government and contractor to access management-level information regarding TO status.

The contractor shall implement and maintain a secure, web-based TO Management Portal (Section F, Deliverable 29) that stores artifacts at the unclassified level. Government-approved contractor personnel and Government personnel shall have access to the portal. The portal shall be Common-Access Card (CAC) or Personal Identity Verification (PIV) enabled to allow access to users with either a CAC or PIV credential. The portal content shall be maintained and revised throughout the duration of the TO. The contractor shall implement cybersecurity best practices to protect the portal system and data contained within the portal.

At a minimum, the portal shall provide the following:

- a. Secure logical access controls with user-based views.
- b. An organized document library to store management-related deliverables (e.g., monthly reports, meeting minutes, financial reports, PMP, Travel Authorization Requests (TARs), and Requests to Initiate Purchase (RIPs)).

C.5.1.17 SUBTASK 1.17 – TO STAFFING AND ADJUDICATION

For the purposes of this TO, staffing is defined as the submission of current, accurate, and complete Contractor Gains and Loss Roster (Section F, Deliverable 30) and Security In-Process (SIP) packages (Section F, Deliverable 31). The contractor shall request a confirmation of receipt and status updates from the PEO EIS I3MP Site Security Officer (SSO). The PEO EIS I3MP SSO will confirm receipt of SIP forms and notify the contractor of any changes in status during the adjudication process. All documents that contain Personally Identifiable Information (PII) shall be sent in accordance with Section H.15. A redacted version of the Contractor Gains and Loss Roster shall be submitted to the FEDSIM COR anytime it is sent to the PEO EIS I3MP.

All personnel on the Contractor Gains and Loss Roster shall be aligned to a specific support task. If adjudication is required, the personnel shall be available within three weeks following final

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adjudication and SSO approval. If no adjudication is required, the personnel shall gain access to the B/P/S/C via coordination with the TPOC. The contractor shall ensure the quality and timely submission of any required SIP packages (Section F, Deliverable 31), including responses to the PEO EIS I3MP SSO within five calendar days of PEO EIS I3MP inquiry on the SIP package submission. The contractor shall monitor and track the progress of all SIP packages from initiation to adjudication.

The SSO will contact individuals requiring adjudication on the Contractor Gains and Loss Roster directly to initiate the completion of the SIP forms. If inaccuracies are identified, the PEO EIS I3MP SSO will reject the forms and resubmission may be required. The Government will not be held responsible for inaccurate or inconsistent forms that delay staffing. Once the Start-Up period has completed, the contractor shall provide a Security Status Report (Section F, Deliverable 32) to the TPOC and FEDSIM COR weekly.

C.5.1.18 SUBTASK 1.18 – SAFETY AND ACCIDENT PREVENTION

A Safety Officer is required to be on site at all times while the contractor is conducting work associated with this effort, but not at all work locations at each site. The Government reserves the right to conduct safety inspections randomly (announced or unannounced) on a regular basis. The contractor shall provide air purity, safety barricades, extraction equipment, signs, and signal lights, etc., as applicable, which adhere to standard OSHA procedures.

The contractor shall provide and maintain work environments and procedures that shall:

- a. Safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to contractor operations and activities.
- b. Avoid interruptions of Government operations and delays to project completion dates.

The Contractor shall submit an Accident Prevention Safety Plan (Section F, Deliverable 33). This plan shall be written by the prime Contractor. The Contractor shall not start work until the Accident Prevention/Safety Plan is approved by the FEDSIM COR and/or TPOC.

C.5.2 TASK 2 – PROVIDE SITE SURVEY, DESIGN, AND ENGINEERING

The contractor shall perform a survey at each site that will demonstrate a full understanding of the requirements and provide an engineered design for implementation and migration of the OSP at each installation. The contractor shall EFI&T an OSP distribution system based on the information collected from the survey to provide end-to-end connectivity to support the network requirements. The contractor shall develop an engineering design package to make improvements and expansions necessary to meet these requirements, including the detailed specifications in the Capability Document (CD), Section J, Attachment G. The requirement is to ensure that all items provide a fully operational capability. Items included under the OSP distribution shall be provided as specified in Material Specifications, Section J, Attachment H.

C.5.2.1 SUBTASK 2.1 – SITE SURVEY

The contractor shall perform site surveys that meet the detailed requirements in Section J, Attachment G. and as follows:

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- a. Conduct an information verification and survey to identify the existing conditions of the site.
- b. Conduct sufficient surveys to capture any grounding and bonding issues that may impact equipment installation related to the project and the contractor's ability to provide a modernized OSP cabling infrastructure.
- c. Provide all resources necessary to survey project site facilities or future site facilities at each site that currently provides or will provide OSP infrastructure to the local NEC.
- d. Survey and test existing infrastructure intended for re-use as part of its design. The contractor shall report deficiencies to the Government for remediation.
- e. Conduct the surveys in a manner that captures the entirety of the project for each site. The contractor shall provide the Government a Site Survey Completion Notification Letter (Section F, Deliverable 34) once the survey is completed.
- f. Provide advance notice for a Government escort, access, and other constraints through the project SSO.
- g. Perform continuing coordination with the Government during surveys and report, at a minimum, on a weekly basis to the Government in the WSR, any items it discovers in its surveys that may impact the design or implementation of the OSP infrastructure at the project site.

The contractor shall provide a Site Survey Report (SSR) (Section F, Deliverable 35) of all survey findings. The SSR shall conform to the specifications in Section J, Attachment G.

C.5.2.2 SUBTASK 2.2 – ENGINEER AND DESIGN

The contractor shall engineer and design a total solution with OSP cabling infrastructure based on the results of the site surveys and the TO requirements. The contractor's design shall provide the approach and justification to support the design. The final design shall take into consideration the existing infrastructure, architecture, equipment, security, and impacts to the project site. Re-utilization of existing equipment and other systems shall be considered and provided in the final design and be consistent with the requirements and total cost of ownership. The final design shall be a robust, secure, resilient, reliable, scalable, expandable, manageable, and affordable OSP cabling infrastructure.

C.5.2.3 SUBTASK 2.3 – DESIGN REVIEWS

The contractor shall develop Preliminary Design Reviews (PDRs) (Section F, Deliverable 36), and Critical Design Reviews (CDRs) (Section F, Deliverable 37). Each PDR and CDR shall contain a Design Package (Section F, Deliverable 38) that specifies the design.

a. PDR

The contractor shall conduct a PDR (Section F, Deliverable 36) in accordance with the Government-approved schedule. The PDR system design shall be based on the Government-reviewed design requirement baseline and include all design activities as necessary. A list of long-lead items shall be included in the PDR package to be approved per the RIP (Section J, Attachment I) in C.5.2.4. The Government will review the PDR package and provide comments, which shall be incorporated by the contractor and approved by the FEDSIM COR and TPOC.

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b. CDR

The contractor shall conduct a CDR (Section F, Deliverable 37) in accordance with the Government-approved schedule. A RIP (Section J, Attachment I) is required to initiate purchases. The FEDSIM COR and TPOC will review the CDR package and provide comments, which shall be incorporated by the contractor. The contractor and FEDSIM COR shall coordinate with the FEDSIM CO when long-lead items are involved. The contractor shall not begin the implementation of the design without FEDSIM COR concurrence/approval.

C.5.2.4 SUBTASK 2.4 – PRE-IMPLEMENTATION COORDINATION

The contractor shall provide pre-implementation coordination for all utilities, permits, and procurement materials.

a. Utilities

The contractor shall coordinate with the FEDSIM COR and/or TPOC for all utilities (i.e., communications, power, water, sewer, and gas) to have utility line locations identified based on the Level of Effort (LOE) for this project. The contractor shall apply for, obtain, and comply with all local guidance and procedures concerning the identification of utility line locations prior to digging at any site in the project area and summarize the documentation in a Utilities Procedures Report (Section F, Deliverable 39). Failure to do so will result in the contractor being responsible for the repairs to damaged utilities at no additional cost to the Government and reimbursement to the Government (or affected non-Governmental organizations) for loss of service due to the damaged utilities, and it will constitute contractor negligence.

b. Permits

The contractor shall obtain all permits. The contractor shall apply for, coordinate with, and comply with the local AHJ on guidance and procedures concerning all permits. Procedures and contacts for obtaining permits shall be coordinated through the FEDSIM COR and TPOC. Prior to work at any location in the project area, the contractor shall ensure the required permits have been obtained and approved/authorized.

c. Procurement of Tools

The contractor shall ensure that equipment and material is ordered through a RIP in a timely fashion to meet the schedule and performance requirements of the project. In the event tools require long lead times and need to be ordered prior to the final design approval, the contractor shall coordinate with the FEDSIM COR, who will consult with the FEDSIM CO, to obtain approval for ordering long-lead-time items. The Government is not responsible for costs associated with any equipment or material that is ordered by the contractor, prior to final design, without written authority from the FEDSIM COR to accept those costs against a TDP.

C.5.3 TASK 3 – PROVIDE IMPLEMENTATION AND TEST

The contractor shall implement its approved design to support a modernized OSP infrastructure that is robust, reliable, interoperable, scalable, maintainable, and manageable. The design shall be repeatable to the maximum extent possible. The OSP cabling infrastructure shall comply with all Government, I3MP, and Department of Defense (DoD) guides, regulations, and policies and be free of defects as demonstrated by Government physical inspections and approved testing.

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The contractor shall perform all efforts, including all EFI&T, and documentation to deliver a turnkey OSP infrastructure solution.

The contractor shall install and configure all the components (e.g., fiber, MH, HH, conduit, building entries, trenching, digging, and external cabling) for the OSP infrastructure in the approved design.

The contractor shall perform testing on all new and reused systems infrastructure to validate that infrastructure complies with the CD, PWS, Army, DoD, and industry standards and regulations. The contractor shall utilize methods and approach/processes to minimize service outages, reduce risk, and prevent damage to infrastructure during performance of implementation (to include migration, testing, and cutover).

C.5.3.1 SUBTASK 3.1 – FURNISH

The contractor shall furnish all supplies, equipment, facilities, and services required to perform work under the TO, with the exception of Government-Furnished Property (GFP) identified in each approved CDR package. Detailed Furnish specifications are shown in Section J, Attachment G. Before commencement of the facilities infrastructure efforts, the FEDSIM COR must approve all proposed work. The design and system engineering requirements and pre-implementation coordination shall be in accordance with Section C.5.2.

The contractor shall furnish the items in the approved Procurement List of Materials (LOM) (Section F, Deliverable 40) for all required OSP infrastructure and other ancillary components needed to meet the requirements. All components supplied within this TO shall comply with material specifications in Sections J, Attachments G and I. Prior to the purchase of any equipment, the contractor shall submit a Procurement LOM (Section F, Deliverable 40), including product submittals, to the Government for approval.

a. Procurement LOM

The contractor shall develop a Procurement LOM (Section F, Deliverable 40), including all materials required for installation as detailed in the contractor design, based on the requirements of a capability document that will be furnished by the Government. All materials specified shall be Trade Agreement Act (TAA) (19 U.S.C. § 2501-2581) compliant. The contractor shall update the Procurement LOM as tools arrive and submit it to the COR.

b. Procurement of Materials

The contractor shall procure the materials identified in the contractor-developed and Government-approved Procurement LOM.

1. All equipment, material, supplies, tools, etc. procured by the contractor for Government ownership shall be new and not used.
2. All equipment, material, supplies, tools, etc. procured by the contractor, for Government ownership, shall be transitioned to the Government upon signing of the final inventory acceptance at each site.
3. Equipment, material, supplies, etc. procured by the contractor shall not contain asbestos of any type, and no type of material containing asbestos of any kind is permitted to be incorporated into the engineered solution.

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4. Equipment, material, supplies, etc. shall not be primed or painted with lead-based primer or paint.
5. The contractor shall maintain all Contractor-Furnished Equipment (CFE) (Section F, Deliverable 41) warranties until technical acceptance is completed, upon which the required warranty period will commence. See Section H.28 Warranties for more details.

C.5.3.2 SUBTASK 3.2 – MATERIAL FIELDING AND ASSET MANAGEMENT

Material management and asset functions associated with CFE (Section F, Deliverable 41) and Contractor-Furnished Material (CFM) (Section F, Deliverable 42), purchased by the contractor on behalf of the Government and subsequently issued to a Gaining Command (GC), shall be maintained and tracked in accordance with U.S. Army Regulations (ARs), Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA ALT) guidance, and applicable Defense Federal Acquisition Regulation Supplement (DFARS) clauses.

The contractor shall use the appropriate Asset Management Forms (Section F, Deliverable 43) to maintain accountability over equipment throughout the lifespan of the project. The contractor shall provide the required LOMs (Section F, Deliverable 40) and Excess Material Reports (Section F, Deliverable 44). Detailed specifications for the Excess Material Reports are found in Section J, Attachment G.

C.5.3.3 SUBTASK 3.3 – PROCURE AND INSTALL PREFABRICATED COMMUNICATIONS SHELTERS

If determined to be necessary, the contractor shall EFI&T a pre-constructed, pre-cast reinforced concrete communications shelter(s) according to the LOM (Section F, Deliverable 40). Shelters shall meet the detailed specifications in Section J, Attachment G. The contractor shall coordinate with the TPOC on the final placement of the shelter. The contractor shall coordinate with the TPOC in order for approval for the shelter to be granted. The supporting equipment includes the following at each new shelter: AC electric service, redundant HVAC units, auxiliary power (generator), lighting, grounding and lightning protection systems, fire detection/alarm, clean agent fire suppression system, facility monitoring alarms, security perimeter fence, OSP cable entrance, and overhead cable tray.

C.5.3.4 SUBTASK 3.4 – INSTALL

The contractor shall perform site preparation and implementation activities required for the successful implementation of a turn-key solution, employing best commercial practices.

All work shall be performed in accordance with the detailed specifications in Section J, Attachment G and the approved TDP which shall reference the approved CDR package (Section F, Deliverable 37).

a. Review/Approval

Before commencement of a site facilities infrastructure effort, the FEDSIM COR must approve all proposed work.

b. Site Work/Removal/Disposal/Recycling

The contractor shall coordinate all hazardous material disposals with the B/P/C/S DPW and Environmental Office. The contractor shall dispose of all work debris at an off-post

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facility. The contractor shall obtain digging permits and utility locates/markings from the DPW. The contractor shall fully coordinate any utility service disruption with the DPW, NEC, and local service providers.

c. **Disturbed Areas and Damage**

The contractor shall take all necessary precautions to avoid damage to property. The contractor shall document any damage to walls, ceilings, floors, or interior finishes caused by contractor actions. The contractor shall inspect all material for physical damage at each fielding site and report such damage to the Government, along with a detailed report identifying a cumulative list of damaged equipment, NLT than 24 hours after initial equipment assessment and at any time before, during, and after installation in a PNR (Section F, Deliverable 1). The contractor shall report any damage to facilities, property, and equipment to the FEDSIM COR, and TPOC. In addition, the contractor shall provide the criticality of the damage, its impact to the IMS (Section F, Deliverable 19), and the mitigating strategy (i.e., long-lead-time items). The contractor shall document the event in the Incident Log Report (Section F, Deliverable 11).

C.5.3.5 SUBTASK 3.5 – TEST

The contractor shall provide an OSP Test Plan (Section F, Deliverable 45) and perform the following testing in accordance with the OSP Test Plan. A Test Report (Section F, Deliverable 46) shall document results of testing in accordance with the OSP Test Plan.

The contractor shall test according to the Capability Document (Section J, Attachment G), and provide a Test Report (Section F, Deliverable 46).

a. **Acceptance Testing**

The contractor shall provide acceptance testing of the facilities infrastructure efforts including new and reused infrastructure in accordance with the Test Plan (Section F, Deliverable 45). Acceptance testing shall be accompanied by a Test Report (Section F, Deliverable 46). A final List of Materials and a Completed Department of Defense Form 250 (Section F, Deliverable 47) shall be provided. All features and functions shall be demonstrated to the FEDSIM COR and/or TPOC. The acceptance testing and measurements shall be in accordance with the referenced standards and commercial best practices. At a minimum, the following systems shall be acceptance tested:

1. AC Electrical
2. Power Disconnecting Means
3. System Grounding and Lightning Protection
4. Auxiliary Power (two hours of full load with load bank testing)
5. HVAC
6. Fire Detection and Suppression Alarms
7. Environmental Alarm Monitoring and Reporting System

C.5.3.6 SUBTASK 3.6 – LIFE-CYCLE SUPPORT

The contractor shall provide a Life-Cycle Sustainment Plan (LCSP) (Section F, Deliverable 48) and OSP Test Plan (Section F, Deliverable 45) that shall ensure all installed components of the entire system are covered under warranty, maintainable, and supportable to meet reliability, availability, and operational goals. The contractor's LCSP shall include sufficient detailed life-

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cycle support information to maintain full system functionality. The plan shall include, but is not limited to, the following:

- a. Specification of all warranty coverage.
- b. Maintenance procedures with associated documentation.
- c. A comprehensive approach to life-cycle support processes and procedures (inclusive of warranties, spares, maintenance, and repair and return).

In addition, to address catastrophic failure, the contractor shall provide emergency call response 24 hours a day, seven days a week, on a pay-per-incident basis for out-of-warranty issues.

C.5.3.7 SUBTASK 3.7 – DRAWINGS AND RECORDS

The contractor shall provide a variety of drawings and records to the Government, including pre-installation project drawings, red-lined project drawings, as-built project drawings, and photographic records.

- a. Pre-Installation Project Drawings (Section F, Deliverable 49)
The contractor shall submit all project drawings to the Government for review and concurrence. In collaboration with the Government, the contractor shall analyze drawings, perform site surveys, and verify all project drawings in the design including, but not limited to, floor plans, rack face elevation drawings, and OSP drawings. The contractor shall provide all drawings, annotations, questions, analysis, and comments and conduct CDR (Section F, Deliverable 37). All telecommunications drawings shall be in accordance with the latest USAISEC Drafting Guide. All telecommunications designs shall be rendered and stamped in accordance with the Telecommunications Industry Association (TIA) and Electronic Industries Alliance (EIA) Building Telecommunications Wiring Standards' general guidelines.
- b. Red-Lined Project Drawings (Section F, Deliverable 50)
Throughout the installation process, the contractor shall maintain an up-to-date, red-lined copy of all changes made to the design drawings, without deleting any original or previous information. The contractor shall submit Red-Lined Project Drawings to the Government, upon request, at any time. The contractor shall, upon each submission and completion of the final subsystem acceptance test, furnish three sets of the Red-Lined Project Drawings depicting the actual installation, which shall be used to verify As-Built Project Drawing (Section F, Deliverable 52) submittals. The drawing border/template and submission format shall be approved by the Government.
- c. As-Built Project Drawings (Section F, Deliverable 52)
The contractor shall submit all As-Built Project Drawings. The As-Built Project Drawings shall incorporate the approved Red-Lined Project Drawings, with no track changes. The As-Built Project Drawings shall be provided by the prime contractor. All other drawing formats and submissions shall be approved and coordinated with the Government. The contractor shall provide As-Built Project Drawings to reflect actual installation carried out during the completion of project work.
 1. Content. The as-built drawings shall accurately reflect the condition of all real property facilities as constructed, installed, and erected. This shall include any differing site conditions and all modifications/alterations made to the original TO drawings during the course of implementation and/or installation. When changes

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from the original works/implementation TO documents are not extensive, reproducible works/implementation TO drawings may be revised to show as-built conditions.

2. The title “as-built” shall be clearly marked on the as-built drawings, above the title block, and the words, “Final Revision” shall be inserted in the title block.
 - i. Provide Computer-Aided Design (CAD) drawings of all maintenance holes associated with the project. The CAD drawings shall depict all associated cables, ducts, and splice cases for each maintenance hole. The CAD drawings shall annotate the manufacturer name and date printed on the cable.
 - ii. The CAD drawings shall annotate the NEC-provided cable name for each cable and provide a reference to North.
 - iii. The drawing shall obtain names from the NEC Project Manager for all copper cables, FOCs, communication maintenance holes, and pedestals. All maintenance-hole CAD drawings and digital photos shall be provided with the final record drawings.

d. Drawings Format

Drawings shall be in accordance with standards shown in Section J, Attachment G. Drawings shall be in the following forms:

1. Electronic CAD Files. Graphic digital file formats and media shall be as specified on the DD Form 1423, Contract Data Requirements List. Dissimilar items of information shall not be contained in the same file (e.g., Mechanical and Electrical Plans). Files shall include digital representations of all drawings which are submitted, as well as any supporting files, such as cell/block libraries, plotting set-up files, user menus, and similar graphic files.
2. Full-Scale Non-Reproducible Copies. Full-scale non-reproducible copies shall be clear, legible, and in accordance with commercial industry standards.
3. Reduced-Size Non-Reproducible Copies. Reduced-size non-reproducible copies shall be clear, legible, and in accordance with commercial industry standards. Reduced-size copies of drawings shall be clearly marked to indicate they are printed at a reduced size (Example: D/B: “D” denotes the original size and “B” denotes the reduced size).

e. Photographic Records

The contractor shall provide Photographic Records (Section F, Deliverable 53) in digital format, and the Photographic Records shall be recorded for work areas (inside or outside) prior to start, during, and after completion of work. The contractor shall obtain authorization for taking pictures prior to start of work from the local security office. The designated contractor personnel, who will be authorized to take photos, will be issued the authorized photography memorandum and shall have it in their possession while taking the photos. Digital pictures shall be taken by the contractor during site survey of the survey design phase, before all work begins, during implementation, and after work is completed, when picture taking is not in violation of the local security policies.

All photographs, drawings, and other representations (originals and copies) pertaining to this effort that have not been destroyed or provided to others as required by this document, shall be returned to the Government upon completion of this project.

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Photos of any kind (digital or non-digital) of security implements (e.g., security cameras, guards, police officers, barriers) are prohibited. Any photos taken on the installation are subject to be reviewed by law enforcement personnel.

C.5.3.8 SUBTASK 3.8 – RESTORATION

The contractor shall restore all areas affected by this project effort to the original or better condition. The period for such restoration is required within 72 hours after completion of the installation. The contractor shall not burn, bury, or otherwise dispose of trash on the project site.

Unless the contractor receives written authorization from the FEDSIM COR, the work area may remain open until all work is complete and accepted by the Government. Upon completion of the work/project, the contractor shall:

- a. Leave the work area in a clean, neat, and orderly condition satisfactory to the Government.
- b. Obliterate all signs of temporary facilities, such as haul roads, work area, structures, foundations of temporary structures, and stockpiles of excess or waste materials prior to final acceptance of the work, unless otherwise instructed in writing by the FEDSIM COR.
- c. Remove bulletin boards, signs, barricades, and any other temporary products from the site.
- d. Restore to original or better condition any areas used for or impacted by the storage of equipment, material, or other use, after removal of trailers, materials, and equipment from the site.
- e. Restore traversed areas to their original condition, including topsoil and seeding, as necessary.
- f. Perform final clean-up activities including, but not limited to, the following:
 1. Leave premises “broom clean.”
 2. Clean exterior surfaces exposed to view; remove temporary labels, stains, and foreign substances; and polish transparent and glossy surfaces.
 3. Clean equipment and fixtures.
 4. Clean debris from drainage systems.
 5. Sweep paved areas and rake clean landscaped areas.
 6. Remove waste and surplus materials, rubbish, and temporary facilities from the site.
 7. Recycle, salvage, and return work and demolition waste from the project in accordance with the U.S. Army Integrated Solid Waste Management Policy.
 8. Promptly and legally transport and dispose of any trash.

C.5.3.9 SUBTASK 3.9 – DEMARCATION REQUIREMENTS

The demarcation requirements defined below are in support of terminating the OSP cables in the building at the demarcation point. All demarcation work shall be in accordance with the standards set forth in Section J, Attachment G. The contractor shall evaluate rack and floor space in all buildings, reuse to the maximum extent practical, and EFI&T new racks and/or cabinets for installation of Fiber Optic Patch Panels (FOPPs) as required during the site survey. Demarcation work may include installing new racks or cabinets, backboards, cable management, pathways,

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etc. All demarcation work shall be implemented in accordance with the most recent versions of the UFC 3-580-01, Telecommunications Interior Infrastructure Planning and Design, industry standards, and UCR 2013 with subsequent changes, unless otherwise specified.

The contractor shall, in coordination with the TPOC determine exact locations for the placement of new equipment. The environment, existing equipment, cabling, tenant needs, safety, security, maintainability, equipment access, industry standards, and USG standards, etc., shall be taken into consideration. The TPOC will review and approve the contractor's design, including new equipment placement locations (if applicable) before work begins.

The contractor shall EFI&T all items required, such as larger or additional racks, cabinets, cabling, hardware, or any other items to meet all the requirements needed to implement the OSP infrastructure. The contractor shall ensure all hardware is installed/placed in a manner that prevents damage from environmental (e.g., water, dust) and/or safety hazards.